

FIG. 2

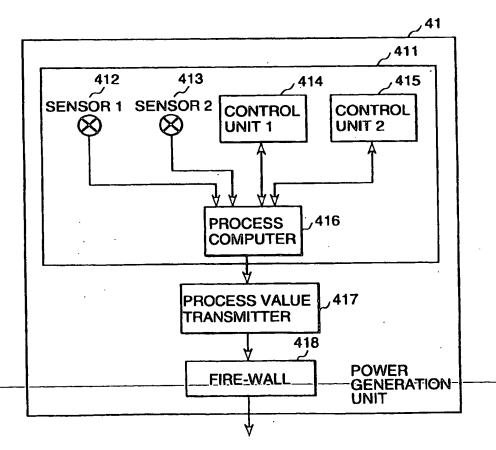


FIG. 3

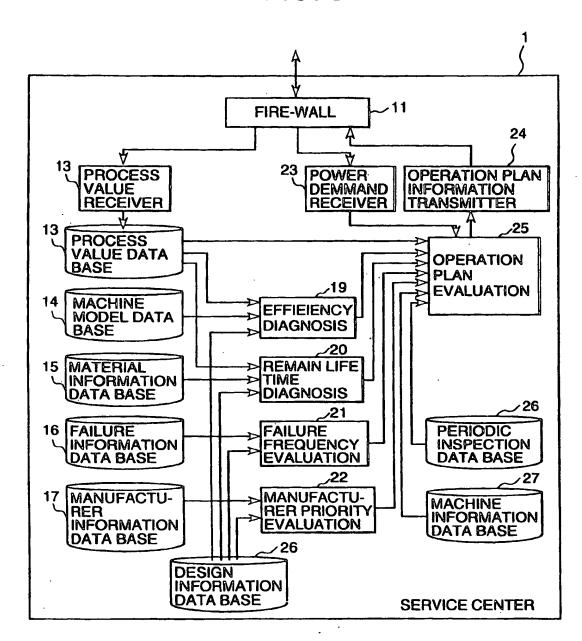


FIG. 4

PROCESS VALUE DATA BASE

POWER PLANT	UNIT	PRO No.	OCESS	PROCESS VALUE								
FLANT			TIME	12:00:20	12:00:19	12:00:18	•••					
1		PI	D001	100.0	99.0	99.5						
201452	UNIT 1	PI	D002	120.0	119.0	118.0						
POWER PLANT A	ו וואוט	PI	D003	100.0	100.0	100.0						
			:									
	UNIT 2			·								

FIG. 5

DESIGN INFORMATION DATA BASE

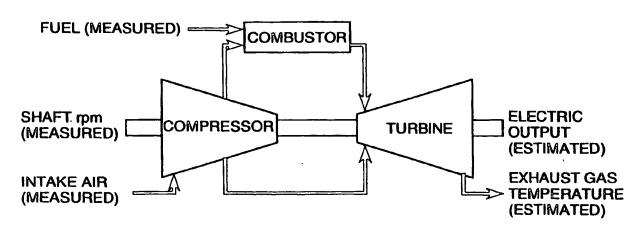
		DECIGIA HAI OLIMINAHOTA DATA	A DAGE
POWER PLANT	UNIT	MACHINE (MANUFATURER/TYPE)	PARTS (MANUFACTURER/TYPE)
POWER PLANT A	UNIT 1	GAS TURBINE(A Co./GT001)	COMBUSTOR(B Co./CB003)
			TURBINE(A Co./TB001)
			COMPRESSOR(A Co./CP001)
		GENERATOR(B Co./GN005)	
			:

FIG. 6

PART	MANUFATURER/ TYPE	MACHINE MODEL	INPUT OUTPUT SPECIFICATION
COMPRESSOR	A Co./CP001	MODEL CP001	INPUT:PID010,PID015, · · OUTPUT:PID030,PID035, · ·
	B Co/CP001	MODEL CP003	
	ŧ		
TURBINE	A Co./ TB001		

FIG. 7

MACHINE MODEL



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FIG. 8

PERFORMANCE DETERIORATION JUDGEMENT MAKING USE OF MACHINE MODEL

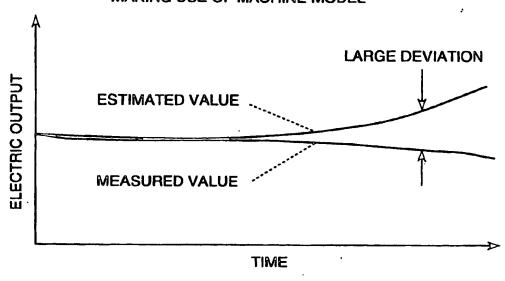
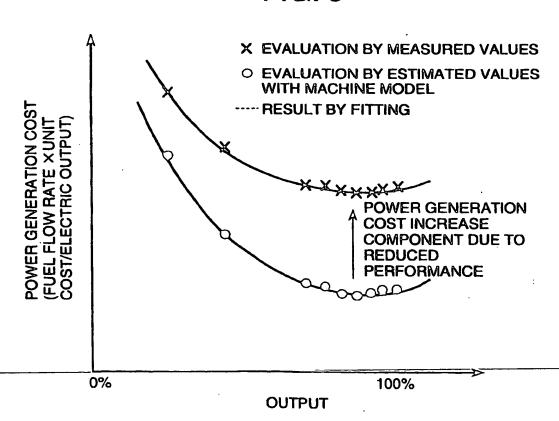


FIG. 9



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FIG. 10

PERIODIC INSPECTION INFORMATION DATA BASE

			_				19	99)							_			20	00)				
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
AF	PLANT																								
	UNIT 1				5											ζ	5								
	UNIT 2																								
ВР	LANT																								
i i	UNIT 1																	Z]						
	UNIT 2																							☐	
	i																								
☐ FINISHED ☐ PLANNED																									

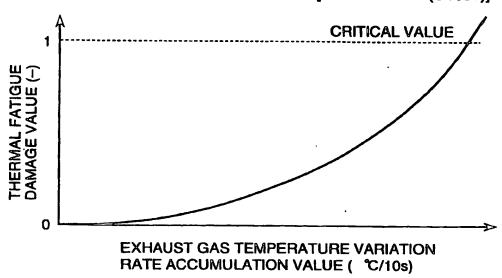
FIG. 11

MACHINE INFORMATION DATA BASE

MACHINE/ PARTS	MANUFACTURER/ TYPE	PURCHASED PRICE	DAYS FOR INSTALLATION
GAS TURBINE	A Co./GT001	20000M	10 DAY
	B Co./GT003	16000M	14 DAY
	C Co./GT001	24000M	8 DAY
	:	:	:
:	:		
			,

FIG. 12

STRUCTURE OF MATERIAL INFORMATION DATA BASE THERMAL FATIGUE DAMAGE DATA [GAS TURBINE (GT001)]



CREEP DAMAGE DATA [GAS TURBINE (GT001)]

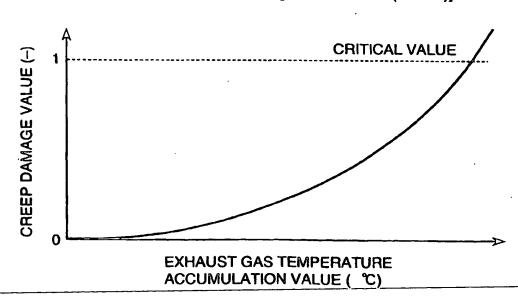


FIG. 13

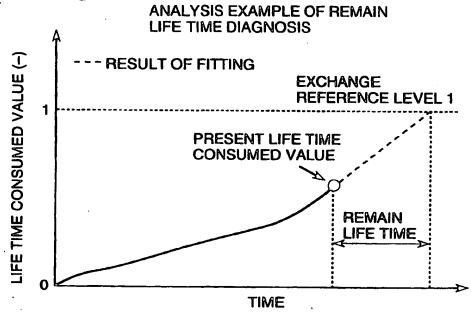


FIG. 15

FAILURE INFORMATION DATA BASE

DATE OF FAILURE OCCURRED	PLANT	UNIT	PARTS (MANUFACTURER/ TYPE)	DATE OF PREVIOUS REPAIR, EXCHANGE	CAUSE OF FAILURE
2000.9.10	PLANT A	UNIT 1	VALVE (A Co./VL0010)	1992.3.20	PACKING DETERIO- RATION
1998.6.5	PLANT B	UNIT 2	PUMP (B Co./PU032)	1990.4.1	COUPLING BREAKAGE
i i	:	:	:	i	÷

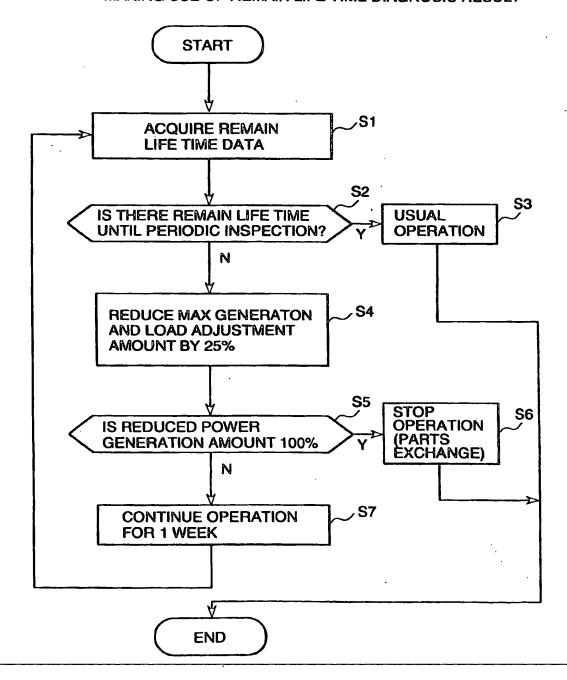
FIG. 16

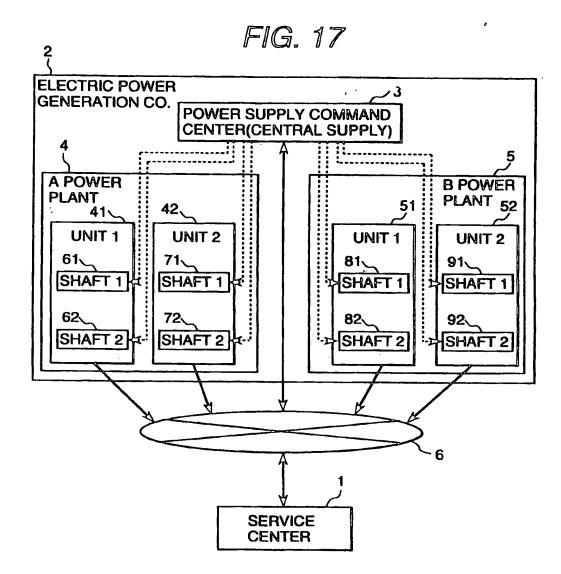
MANUFACTURER INFORMATION DATA BASE

MANUFACTURER	RELIABILITY	MAINTENANCE CAPACITY
A Co.	Α	A
В Со.	Α	В
C·Co.	В	В
	:	:

FIG. 14

FLOW OF OPERATION AND MAINTENANCE PLANNING MAKING USE OF REMAIN LIFE TIME DIAGNOSIS RESULT





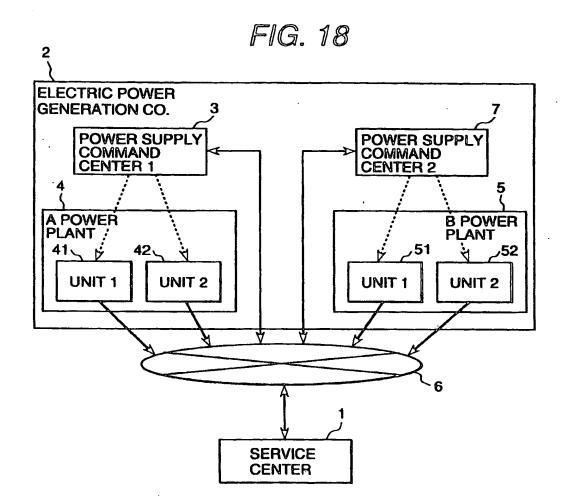


FIG. 19

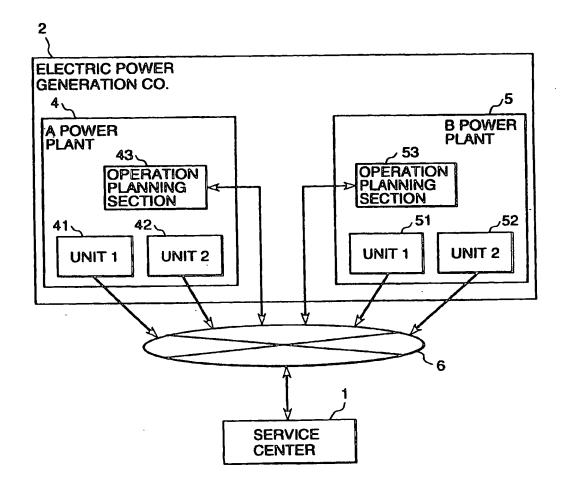


FIG. 20

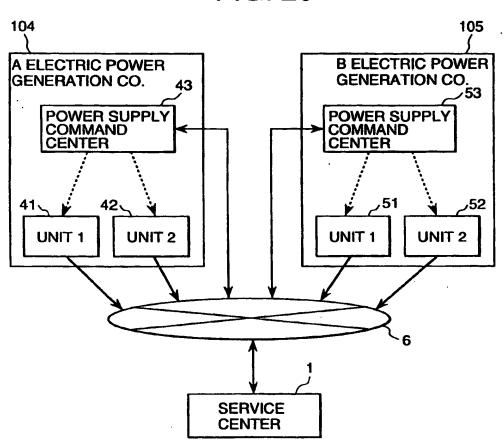


FIG. 21

PROCESS VALUE DATA BASE

POWER GENERATION	UNIT	PRO No.	OCESS	PR	OCESS V	/ALUE	
Co.			TIME	12:00:20	12:00:19	12:00:18	•••
		PI	D001	100.0	99.0	99.5	
	UNIT 1	PI	D002	120.0	119.0	118.0	
A POWER GENERATION		PI	D003	100.0	100.0	100.0	
Co.			:				
	UNIT 2						

FIG. 22

DESIGN INFORMATION DATA BASE

POWER GENERATION Co.	UNIT	MACHINE (MANUFATURER/TYPE)	PARTS (MANUFACTURER/TYPE)
	UNIT 1	GAS TURBINE(A Co./GT001)	COMBUSTOR(B Co./CB003)
			TURBINE(A Co./TB001)
A POWER	•	1	COMPRESSOR(A Co./CP001)
GENERATION Co.		GENERATOR(B Co./GN005)	
			:

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FIG. 23

PERIODIC INSPECTION INFORMATION DATA BASE

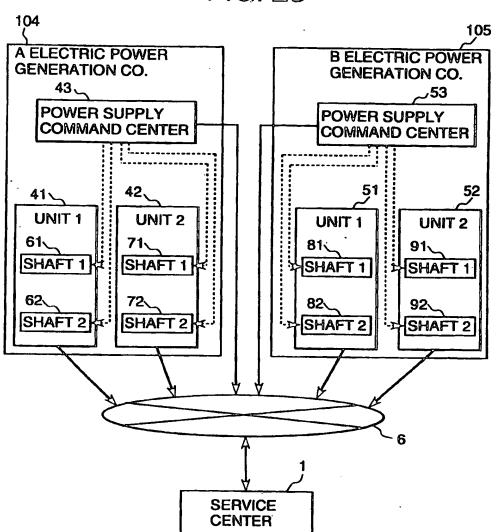
	,						19	99											20	00		<u></u>			
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
GEN	OWER JERATION																								
Co.	UNIT 1																֡֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֡֝ ֡֡֡֡֡֡֡֡								
	UNIT 2																								
GEN	OWER PRATION																								
Co.	UNIT 1						5												\ 						
	UNIT 2																								
	:																								
<u> </u>	FINISHED PLANNED																								

FIG. 24

FAILURE INFORMATION DATA BASE

	POWER GENERATION Co.	UNIT	PARTS (MANUFACTURER/ TYPE)	DATE OF PREVIOUS REPAIR, EXCHANGE	CAUSE OF FAILURE
2000.9.10	A POWER GENERATION Co.	UNIT 1	VALVE (A Co./VL0010)	1992.3.20	PACKING DATRERIO- RATION
1998.6.5	B POWER GENERATION Co.	UNIT 2	PUMP (B Co./PU032)	1990.4.1	COUPLING BREAKAGE
:	:	:	:	i	:

FIG. 25



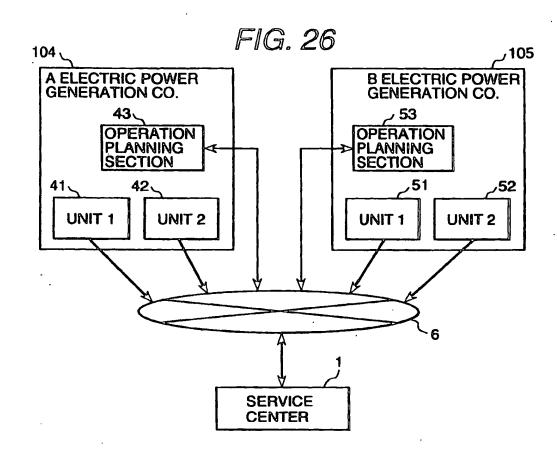


FIG. 27(a)

FIG. 27(b)

